



SI8452AB-B-IS1R Information

Part Number SI8452AB-B-IS1R

ManufacturerSilicon LabsCategoryIsolators

Digital Isolators

Description DGTL ISO 2.5KV GEN PURP 16SOIC **Package** 16-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

For Reference Only

Website: https://www.heisener.com
E-mail: salesdept@heisener.com



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SI8452AB-B-IS1R Specifications

Manufacturer Part Number \$18452AB-B-ISIR Manufacturer Silicon Labs Category Isolators Package 16-SOIC (0.154", 3.90mm Width) Series - Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 5 Inputs - Side 1/Side 2 3/2 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/µs (Typ) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature 40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC		
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Number of Channels5Inputs - Side 1/Side 23/2Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)25kV/μs (Typ)Data Rate1MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)3.8ns, 2.8nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Type	General Purpose
Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Isolated Power	No
Channel Type Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/µs (Typ) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Number of Channels	5
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Common Mode Transient Immunity (Min) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 25ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Channel Type	Unidirectional
Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC	Voltage - Isolation	2500Vrms
Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Common Mode Transient Immunity (Min)	25kV/μs (Typ)
Pulse Width Distortion (Max) Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Data Rate	1Mbps
Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V \sim 5.5 V Operating Temperature -40°C \sim 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC	Propagation Delay tpLH / tpHL (Max)	35ns, 35ns
Voltage - Supply $ 2.7 \text{ V} \sim 5.5 \text{ V} $ Operating Temperature $ -40^{\circ}\text{C} \sim 125^{\circ}\text{C} $ Package / Case $ 16\text{-SOIC} (0.154^{\circ}\text{H}, 3.90 \text{mm Width}) $ Supplier Device Package $ 16\text{-SOIC} $	Pulse Width Distortion (Max)	25ns
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC	Rise / Fall Time (Typ)	3.8ns, 2.8ns
Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC	Voltage - Supply	2.7 V ~ 5.5 V
Supplier Device Package 16-SOIC	Operating Temperature	-40°C ~ 125°C
	Package / Case	16-SOIC (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	16-SOIC
		Report errors?

SI8452AB-B-IS1R Guarantees



Quality Guarantees

We provide 90 days warranty. *

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



Service Guarantees

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

SI8452AB-B-IS1R Payment Methods



















SI8452AB-B-IS1R Shipping Methods













If you have any question about SI8452AB-B-IS1R, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com